

Gold King Mine Discharge Water Chemistry – Dissolved Metals				
	8/10/2015	8/13/2015	8/15/2015	8/17/2015
Aluminum (ug/L)	35,000	36,000	34,000	33,000
Antimony (ug/L)	0.5 J	10	3.7	0.44 J
Arsenic (ug/L)	3.7	140	44	2.6
Barium (ug/L)	8.9	12	8.6	8.9
Beryllium (ug/L)	11	11	11	9.8
Cadmium (ug/L)	65	66 B	82	80
Calcium (ug/L)	380,000	360,000	370,000 B	370,000 B
Chromium (ug/L)	2.7	8.6	5.5	2.5
Cobalt (ug/L)	110	110	110	100
Copper (ug/L)	6000 E	6100 E	4600 E	5800 E
Iron (ug/L)	120,000	370,000	150,000	110,000
Lead (ug/L)	32	78	42	32
Magnesium (ug/L)	33,000	26,000	27,000	26,000
Manganese (ug/L)	33,000 E	34,000 E	36,000	32,000 E
Mercury (ug/L)	0.08 U	0.08 U	0.08 U	0.08 U
Molybdenum (ug/L)	0.84 J	16	4.2	0.45 U
Nickel (ug/L)	72	69	69	62
Potassium (ug/L)	2700	2700	2400	2600
Selenium (ug/L)	1.7 JB	4.8	4.7 B ^	12 B^
Silver (ug/L)	0.1 U	0.33 J	0.1 J	0.1 U
Sodium (ug/L)	3900	480 U	5300	5500
Thallium (ug/L)	0.32	0.35	0.29	0.27
Vanadium (ug/L)	2	87	38	1.1
Zinc (ug/L)	25,000 E	26,000 E	20,000 E	24,000 E

E Result Exceeded sample range

U The analyte was analyzed for but not detected

J The result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value.

B Compound was found in the blank and the sample

^ Instrument related QC is outside acceptance limits.

Gold King Mine Discharge Water Chemistry – Total Metals and Miscellaneous				
	8/10/2015	8/13/2015	8/15/2015	8/17/2015
Alkalinity (mg/L)	NA	5 U	5 U	5 U
Aluminum (ug/L)	38,000	36,000	33,000	33,000
Antimony (ug/L)	4.3	9.4	0.62 J	3.5
Arsenic (ug/L)	49	130 B	5.5	45
Barium (ug/L)	9.5	11 B	8.7	9
Beryllium (ug/L)	11	11	11	9.8
Cadmium (ug/L)	67	68	85	77
Calcium (ug/L)	380,000	380,000	380,000 B	360,000 B
Chloride (mg/L)	NA	0.34 J	0.36 J	0.36 J
Chromium (ug/L)	5.7	7 ^	3	4.2
Cobalt (ug/L)	120	110	110	100
Copper (ug/L)	6300 E	6000 E	4600 E	5800 E
Fluoride (mg/L)	NA	11	10	11
Iron (ug/L)	190,000	310,000	120,000	140,000
Lead (ug/L)	51	69	29	41
Magnesium (ug/L)	28,000	28,000	27,000	26,000
Manganese (ug/L)	34,000 E	35,000 E	36,000	32,000 E
Mercury (ug/L)	0.08 U	0.08 U	0.08 U	0.08 U
Molybdenum (ug/L)	4.8	14	0.77 J	4.3
Nickel (ug/L)	74	70	72	63
Nitrate as N (mg/L)	NA	0.023 U	0.023 U H	0.046 UH
pH	NA	3.06 HF	2.93 HF	3.03 HF
Potassium (ug/L)	2900	2700	2500	2600
Selenium (ug/L)	2.5 ^	4.3 B^	3.3 ^ B	15 B^
Silver (ug/L)	0.15 J	0.3 J	0.1 U	0.1 U
Sodium (ug/L)	4000	4800 U	5200	5300
Sulfate (mg/L)	NA	1600	1600	1600
Thallium (ug/L)	0.33	0.35	0.29	0.27
Total Hardness (mg/L)	1100	1100	1100	1000
Total Suspended Solids (mg/L)	66	NA	NA	NA
Vanadium (ug/L)	44	71 E	2.5	32
Zinc (ug/L)	27,000 E	26,000	20,000 E	24,000 E

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